

DOCKET NO: 294185US0PCT

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF

Cordula MOCK-KNOBLAUCH, et al. : EXAMINER: CHIN, HUI H.

SERIAL NO: 10/588,719 : :

FILED: AUGUST 8, 2006 : GROUP ART UNIT: 1796

FOR: MIXTURE COMPRISING A  
DETERGENT AND A  
CO-DETERGENT

DECLARATION UNDER 37 C.F.R. 1.132

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VA 22313

SIR:

I, Dr. Einter Vetter, hereby declare:

1. I am employed by BASF as an engineer and have experience in the field of measuring physical properties of emulsifying agents and emulsions.
2. I am familiar with the contents of the above-identified patent application.
3. The following observations and experiments were carried out by me or under my supervision and control.
4. Generally speaking, emulsions, including microemulsions, are stabilized by a tenside system.
5. The invention in the above-referenced patent application relates to the discovery that addition of relatively small amounts of the required cosurfactants (25% or less by weight of the weight of surfactant present) can stabilize the primary tenside system and/or can further stabilize a water/oil interface in an emulsion. These effect(s) result in increased emulsion stability.

6. The increased emulsion stability is illustrated, for example, in Figure 1 of the above-identified patent application. Figure 1 illustrates the x-point shift in the direction of lower tenside concentrations upon addition of small amounts of required cosurfactant. This lowering of the x-point demonstrates synergism between the required cosurfactant and the surfactant resulting in improved emulsion stability -- it demonstrates that the required cosurfactant synergistically increases the stabilization efficiency of the surfactant, thereby increasing emulsion stability.

7. It has been my experience that the amount of cosurfactant added to the emulsion is result effective: that is, 25% or less (based on the weight of surfactant present) cosurfactant must be added to the composition to take advantage of the true benefits of the present invention. Adding too much cosurfactant (more than 25%) is actually detrimental to emulsion stability. If more than 25% cosurfactant is added, the stability of the emulsion begins decreasing.

8. The undersigned petitioner declares further that all statements made herein of her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

9. Further deponent sayeth not.

Dr. Günter Lötter  
Name

Dr. Günter Lötter

Signature

23/03/2010

Date